## **Claims**

We claim:

1. A method of treating, reducing, or attenuating obesity in an individual comprising
the administration of therapeutically effective amounts of calcium to an individual and
inducing a metabolic change in said individual.

- 2. The method of claim 1, wherein said metabolic change is decreasing intracellular calcium concentrations ([Ca<sup>2+</sup>]<sub>i</sub>), stimulating lipolysis, inhibiting lipogenesis, increasing the expression of white adipose tissue uncoupling protein 2 (UCP2), reducing serum insulin levels, thermogenesis, or decreasing the levels of calcitrophic hormones.
  - 3. The method of claim 1, wherein said metabolic change is weight loss.
- 4. The method of claim 1, wherein said individual is maintained on a restricted caloric diet.
- 5. The method of claim 1, wherein said calcium is contained in dairy products, a dietary supplement, foodstuffs supplemented with calcium, or other foods high in calcium.
- 6. The method of claim 5, wherein said calcium is contained in salmon, beans, tofu, spinach, turnip greens, kale, broccoli, waffles, pancakes, pizza, milk, yogurt, cheeses, cottage cheese, ice cream, frozen yogurt, nutrient supplements, calcium fortified vitamin supplements, or liquids supplemented with calcium.
- 7. A method of attenuating weight gain and adiposity in children, reducing the risk of adiposity in children, or controlling weight gain in children comprising the administration of therapeutically effective amounts of calcium.

8.	The method	of claim 7	, wherein	said	individual	is	maintained	on	a resti	icted
caloric die	t									

- 9. The method of claim 7, wherein said calcium is contained in dairy products, a dietary supplement, foodstuffs supplemented with calcium, or other foods high in calcium.
- 10. The method of claim 9, wherein said calcium is contained in salmon, beans, tofu, spinach, turnip greens, kale, broccoli, waffles, pancakes, pizza, milk, yogurt, cheeses, cottage cheese, ice cream, frozen yogurt, vitamin supplements, or liquids supplemented with calcium.
  - 11. A method of diagnosis and treatment of obesity comprising the following steps:
    - a. determining the weight and, optionally, the height of an individual;
    - b. comparing the weight, or optionally the weight/height ratio, of the individual to established norms;
    - c. optionally, classifying the obesity of the individual;
    - d. optionally providing the individual with information relating to the benefits of maintaining a normal weight, or a normal weight/height ratio; and
    - e. providing the individual with a dietary plan containing high levels of calcium and, optionally printed matter disclosing the obesity-control benefits of a high calcium diet.
- 12. The method of claim 11, further comprising providing said individual with food products containing therapeutically effective amounts of calcium.
- 13. A computer implemented method of diagnosing, treating, and/or monitoring obesity comprising the following steps:

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3	a.	determining the weight and, optionally, the height of an individual and
4		inputting these values into a computer system;
5	b.	optionally calculating the weight/height ratio of the individual;
6	c.	comparing the weight, or optionally the weight/height ratio, of the individual
7		to established norms contained in a weight and/or weight/height database
8		available to the computer;
9	d.	optionally classifying the obesity of the individual;
10	e.	optionally providing the individual with information relating to the benefits
11		maintaining a normal weight, or optionally a normal weight/height ratio; and
12	f.	providing the individual a dietary plan containing high levels of calcium and,
13		optionally printed matter disclosing the obesity-control benefits of a high
14		calcium diet.
15	g.	optionally monitoring the progress of the individual.
1	14. T	The method of claim 13, further comprising providing said individual with
2	dietary produc	cts containing therapeutically effective amounts of calcium.
1	15. A	computer implemented methods of diagnosing, treating, and/or monitoring
2	obesity over a	communication network comprising the following steps:
3	a.	obtaining weight and, optionally, height data from an individual by input of
4		the data on a web page;
5	b.	optionally calculating the weight/height ratio of the individual in a computer
6		connected to the Internet;
7	c.	comparing the weight, or optionally the weight/height ratio, of the individual
8		to established norms contained in a weight and/or weight/height database
9		available to said computer;
10	d.	optionally classifying the obesity of the individual;
11	e.	optionally providing the individual with information relating to the benefits
12		maintaining a normal weight, or optionally a normal weight/height ratio; and

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f. providing the individual a dietary plan containing high levels of calcium and, optionally, information regarding the obesity-control benefits of a high calcium diet.

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- 16. The method of claim 15, further comprising providing said individual with dietary products containing therapeutically effective amounts of calcium.
- 17. The method of claim 15, wherein said method further comprises the verification of the inputted data.
- 18. An article of manufacture useful in stimulating the metabolic consumption of adipose tissue containing foodstuffs and printed materials disclosing the advantages of high calcium diets.
- 19. The article of manufacture of claim 18. wherein the printed materials are in the form of pamphlets.
- 20. The article of manufacture of claim 18, wherein printed material is embossed or imprinted on the foodstuff and indicates the amounts of calcium contained within the foodstuff, recommended levels of calcium intake necessary for the metabolically assisted loss of adipose tissue, recommended BMI values, or recommended heights and weights for individuals.
- 21. A method for promoting the consumption of a calcium-containing product wherein said method comprises the public distribution of information describing the obesity-control benefits of said product which are attributable to the consumption of calcium in said product.

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- 22. The method, according to claim 30, wherein said distribution of said information is achieved by a method selected from the group consisting of verbal communication, pamphlet distribution, print media, audio tapes, magnetic media, digital media, audiovisual media, billboards, advertising, newspapers, magazines, direct mailings, radio, television, electronic mail, braille, electronic media, banner ads, fiber optics, and laser light shows.
  - 23. The method, according to claim 30, wherein said information pertians to a class of products to which said calcium-containing product belongs.
  - 24. The method, according to claim 32, wherein said class of products is dairy products.
  - 25. The method, according to claim 30, wherein said product is selected from the gorup consisting of milk, cereals, and vegetables.